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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re application of: LEMAY et al.

Attorney Docket No.: IGT1P078/P-671

Application No.: 10/040,239

Examiner: Deodhar, Omkar A.

Filed: January 3, 2002

Art Unit: 3714

Title: GAME DEVELOPMENT  
ARCHITECTURE THAT DECOUPLES THE  
GAME LOGIC FROM THE GRAPHICS LOGIC

Confirmation No.: 2921

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**CERTIFICATE OF EFS-WEB TRANSMISSION**

I hereby certify that this correspondence is being transmitted electronically through EFS-WEB to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450 on July 13, 2007.

Signed: /Lora Choi Abanador/  
Lora Choi Abanador

**INFORMATION DISCLOSURE STATEMENT  
BEFORE FINAL ACTION OR NOTICE OF ALLOWANCE  
(37 CFR §§ 1.56 AND 1.97(c))**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references identified in the attached PTO Form 1449, (copies of non-U.S. references are attached), may be material to examination of the above-identified patent application. Applicants identify these reference(s) in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make the identified reference(s) of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that this reference indeed constitutes prior art.

This Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits, or after three months from the filing date of this application, whichever event occurred last, but it is believed before the mailing date of either: (i) a final action under §1.113 or (ii) a notice of allowance under §1.311, whichever occurs first.

Accompanying this Information Disclosure Statement is the fee set forth in 37 CFR 1.17(p).

Please charge our Deposit Account No. 500388 in the amount of \$180.00 in payment of the Information Disclosure Statement Fee. If it is determined that any additional fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. IGT1P078).

Respectfully submitted,  
BEYER WEAVER LLP

/Adrienne Yeung/  
Adrienne Yeung  
Registration No. 44,000

P.O. Box 70250  
Oakland, CA 94612-0250  
(408) 255-8001

<b>Form 1449 (Modified)</b>		<b>Atty Docket No.:</b>	IGT1P078/P-671
<b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)		<b>Application No.:</b>	10/040,239
		<b>Applicant:</b>	LEMAY et al.
		<b>Filing Date:</b>	January 3, 2002
		<b>Art Unit:</b>	3714
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### U.S. Patent Documents

<b>Examiner Initial</b>	<b>No.</b>	<b>Patent No.</b>	<b>Date</b>	<b>Patentee</b>	<b>Class</b>	<b>Sub-class</b>	<b>Filing Date</b>
	1.	6,804,763	10/12/04	Stockdate et al.			
	2.	2001/0044339	11/22/01	Cordero et al.			
	3.	6,106,396	8/22/00	Alcorn et al.			
	4.	6,224,482	5/1/01	Bennett			
	5.	4,462,076	7/24/84	Smith, III			
	6.	4,525,599	6/25/85	Curran et al.			
	7.	4,607,844	8/26/86	Fullerton			
	8.	4,727,544	2/23/88	Brunner et al.			
	9.	5,155,856	10/13/92	Bock et al.			
	10.	5,353,411	10/4/94	Nakaosa et al.			
	11.	5,375,241	12/20/94	Walsh			
	12.	5,394,547	2/28/95	Correnti et al.			
	13.	5,473,765	12/5/95	Gibbons et al.			
	14.	5,497,490	3/5/96	Harada et al.			
	15.	5,553,290	9/3/96	Calvert et al.			
	16.	5,575,717	11/19/96	Houriet, Jr. et al.			
	17.	5,634,058	5/27/97	Allen et al.			
	18.	5,752,882	5/19/98	Acres et al.			
	19.	5,758,875	6/2/98	Giacalone, Jr.			
	20.	5,778,226	7/7/98	Adams et al.			
	21.	5,809,329	9/15/98	Lichtman et al.			
	22.	5,870,587	2/9/99	Danforth et al.			
	23.	5,871,400	2/16/99	Yfantis			
	24.	5,872,973	2/16/99	Mitchell et al.			
	25.	5,889,990	3/30/99	Coleman et al.			
	26.	5,901,319	5/4/99	Hirst			
	27.	5,944,821	8/31/99	Angelo			
	28.	5,995,745	11/30/99	Yodaiken			

<b>Examiner</b>	<b>Date Considered</b>
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29.	5,999,990	12/7/99	Sharrit et al.			
30.	6,003,038	12/14/99	Chen			
31.	6,008,279	12/28/99	Shimizu et al.			
32.	6,021,414	2/1/00	Fuller			
33.	6,026,238	2/15/00	Bond et al.			
34.	6,035,321	3/7/00	Mays			
35.	6,071,190	6/6/00	Weiss et al.			
36.	6,075,939	6/13/00	Bunnell et al.			
37.	6,185,678	2/6/01	Arbaugh et al.			
38.	6,210,274	4/3/01	Carlson			
39.	6,251,014	6/26/01	Stockdale et al.			
40.	6,935,946	8/30/05	Yoseloff et al.			
41.	6,394,907	5/28/02	Rowe			
42.	6,401,208	6/4/02	Davis et al.			
43.	6,409,602	6/25/02	Wiltshire et al.			
44.	6,671,745	12/30/03	Mathur et al.			
45.	6,978,465	12/20/05	Williams			
46.	5,893,121	4/6/99	Ebrahim et al.			
47.	6,075,939	6/13/00	Bunnell et al.			
48.	5,469,571	11/21/95	Bunnell			
49.	5,594,903	1/14/97	Bunnell et al.			
50.	6,319,125	11/20/01	Acres			
51.	6,327,605	12/4/01	Arakawa et al.			
52.	5,643,086	7/1/97	Alcorn et al.			
53.	5,823,874	10/20/98	Adams			
54.	5,848,932	12/15/98	Adams			
55.	5,863,041	1/26/99	Boylan et al.			
56.	6,104,859	8/15/00	Yoshida et al.			
57.	6,106,396	8/22/00	Alcorn et al.			
58.	6,149,522	11/21/00	Alcorn et al.			

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	59.	6,102,796	8/15/00	Pajitnov et al.			
	60.	5,664,187	9/2/97	Burkes et al.			
	61.	6,214,495	4/10/01	Segawa et al.			
	62.	6,222,529	4/24/01	Outu-Lascar et al.			
	63.	2002/0151363	10/18/02	Letovsky et al.			
	64.	2001/0053712	12/20/01	Yoseloff et al.			
	65.	5,707,286	01/13/98	Carlson			
	66.	6,215,495	04/10/01	Grantham et al.			
	67.	2001/0003709	06/14/01	Adams			

#### Foreign Patent or Published Foreign Patent Application

Examiner Initial		Document No.	Publication Date	Country or Patent Office	Class	Sub-Class	Translation
							Yes
	68.	37 00 861	7/28/88	Germany			
	69.	40 14 477	7/25/91	Germany			
	70.	2 072 395	9/30/81	UK			
	71.	2 201 821	9/7/88	UK			
	72.	2 202 984	10/5/88	UK			

#### Other Documents

Examiner Initial	No.	Author, Title, Place (e.g. Journal) of Publication, Date
	73.	Retro Fitting a Low-Boy Arcade Machine with a Pentium-Powered M.A.M.E. Setup. October 1996, <a href="http://www.cygnus.uwa.edu.au/~jaycole/jaw/arcade/html">www.cygnus.uwa.edu.au/~jaycole/jaw/arcade/html</a> (5 pages).
	74.	Object-Oriented Programming Concepts, Sun Microsystems, Inc. (2002) (16 pages).
	75.	Terry Monlick, What is Object-Oriented Software, Software Design Consultants, LLC (1999), (5 pages).
	76.	OnCore Systems, <a href="http://www.oncoresystems.com">http://www.oncoresystems.com</a> (1999) (8 pages).
	77.	Encyclopedia, <a href="http://www.eetnetwork.com/encyclopedia">http://www.eetnetwork.com/encyclopedia</a> (2002) (7 pages).
	78.	Michael Tiemann, "Why Embedded Linux", <a href="http://www.linuxdevices.com/articles/AT8926600504">http://www.linuxdevices.com/articles/AT8926600504</a> , October 28, 1999 (6 pages).
	79.	Rick Lehrbaum, "Why Linux", <a href="http://www.linuxdevices.com/articles/AT9663974466">http://www.linuxdevices.com/articles/AT9663974466</a> , January 31, 2000 (pp. 1-2).
	80.	Rick Lehrbaum, "Why Linux", <a href="http://www.linuxdevices.com/articles/AT3611822672">http://www.linuxdevices.com/articles/AT3611822672</a> , February 19, 2000 (pp 1-5).

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	81.	David A. Rusling, The Linux Kernel, <a href="http://tidp.org/LDP/tlk/tlk-title.htm">http://tidp.org/LDP/tlk/tlk-title.htm</a> , 1999 (168 pages).
	82.	“Linux Kernel Glossary”, entry for ZFOD (zero-fill-on-demand), <a href="http://kernelnewbies.org/KernelGlossary">http://kernelnewbies.org/KernelGlossary</a> , downloaded July 7, 2007 (14 pages).
	83.	International Search Reports for applications PCT/US01/07447 and PCT/US01/07381 (5 pages).
	84.	International Search Report for application PCT/US02/30286 (5 pages).
	85.	Office Action dated June 17, 2005 from U.S. Patent Application Serial No. 10/241,804 (23 pages). Final Office Action dated March 9, 2006 from U.S. Patent Application Serial No. 10/241,804 (26 pages). Office Action Dated May 31, 2007 from U.S. Patent Application Serial No. 10/241,804 (13 pages).

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### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A1	5,970,143	10/19/99	Schneier et al.			
	A2	5,991,399	11/23/99	Graunke et al.			
	A3	6,851,607	02/08/05	Orus et al.			
	A4	4,193,131	3/11/80	Lennon et al.			
	A5	4,355,390	10/19/82	Hellwig et al.			
	A6	4,458,315	07/03/84	Uchenick			
	A7	4,494,114	01/15/85	Kaish, et al.			
	A8	4,519,077	05/21/85	Amin			
	A9	4,658,093	04/14/87	Hellman			
	A10	4,817,140	03/28/89	Chandra, et al.			
	A11	4,944,008	07/24/90	Piosenka, et al.			
	A12	4,951,149	08/21/90	Faroudja			
	A13	5,021,772	06/04/91	King, et al.			
	A14	5,050,212	06/20/90	Dyson			
	A15	5,109,152	04/28/92	Takagi, et al.			
	A16	5,146,575	09/08/92	Nolan			
	A17	5,155,680	10/13/92	Wiedemer			
	A18	5,179,517	01/12/93	Sarbin			
	A19	5,259,613	11/09/93	Marnell			
	A20	5,297,205	03/22/94	Audebert, et al.			
	A21	5,342,047	08/30/94	Heidel, et al.			
	A22	5,465,364	11/07/95	Lathrop, et al.			
	A23	5,586,766	12/24/96	Forte, et al.			
	A24	5,586,937	12/24/96	Menashe			
	A25	5,742,616	04/21/98	Torreiter, et al.			
	A26	6,195,587	02/27/01	Hruska, et al.			
	A27	6,620,047	09/16/03	Alcorn, et al.			
	A28	7,063,615	06/20/06	Alcorn, et al.			
	A29	5,704,835	01/06/98	Dietz, II			
	A30	5,759,102	06/02/98	Pease, et al.			
Examiner				Date Considered			

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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A31	5,934,672	08/10/99	Sines et al.			
	A32	4,652,998	03/24/87	Koza et al.			
	A33	4,848,744	07/18/89	Steininger et al.			
	A34	5,488,702	01/30/96	Byers et al.			
	A35	5,103,081	04/07/92	Fisher, et al.			
	A36	4,582,324	04/15/86	Koza, et al.			
	A37	5,611,730	03/18/97	Weiss			
	A38	5,668,945	09/16/97	Ohba et al.			
	A39	3,825,905	07/23/74	Allen, Jr.			
	A40	3,838,264	09/24/74	Maker			
	A41	4,200,770	04/29/80	Hellman, et al.			
	A42	4,218,582	08/19/80	Hellman, et al.			
	A43	4,354,251	10/12/82	Hellwig, et al.			
	A44	4,405,829	09/20/83	Rivest, et al.			
	A45	4,467,424	08/21/84	Hedges, et al.			
	A46	4,752,068	06/21/88	Endo			
	A47	4,759,064	07/19/88	Chaum			
	A48	4,837,728	06/06/89	Barrie, et al.			
	A49	4,845,715	07/04/89	Francisco			
	A50	4,856,787	08/15/89	Itkis			
	A51	4,865,321	09/12/89	Nakagawa, et al.			
	A52	4,911,449	03/27/90	Dickinson et al.			
	A53	4,930,073	05/29/90	Cina, Jr.			
	A54	5,235,642	08/10/93	Wobber, et al.			
	A55	5,283,734	02/01/94	Yon Kohorn			
	A56	5,288,978	02/22/94	Iijima			
	A57	5,291,585	03/01/94	Sato, et al.			
	A58	5,343,527	08/30/94	Moore			
	A59	5,644,704	07/01/97	Pease, et al.			
	A60	5,655,965	08/12/97	Takemoto, et al.			
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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A61	5,725,428	03/10/98	Achmuller			
	A62	5,737,418	04/07/98	Saffari, et al.			
	A63	6,104,815	08/15/00	Alcorn et al.			
	A64	5,768,382	06/16/98	Schneier et al.			
	A65	5,224,160	06/29/93	Paulini, et al.			
	A66	5,161,193	11/03/92	Lampson, et al.			
	A67	5,398,932	03/21/95	Eberhardt, et al.			
	A68	5,421,006	05/30/95	Jablon, et al.			
	A69	6,595,856	07/22/03	Ginsburg, et al.			
	A70	6,496,808	12/17/02	Aiello, et al.			
	A71	6,510,521	01/21/03	Albrecht, et al.			
	A72	6,527,638	03/04/03	Walker, et al.			
	A73	2003/0203756	10/30/03	Jackson, Mark D.			
	A74	2003/0203755	10/30/03	Jackson, Mark D.			
	A75	2003/0195033	01/16/03	Gazdic, et al.			
	A76	2003/0014639	01/16/03	Jackson, et al.			
	A77	2002/0049909	04/25/02	Jackson, et al.			
	A78	6,857,078	02/15/02	Colvin, et al.			
	A79	6,813,718	11/02/04	Colvin			
	A80	6,813,717	11/02/04	Colvin			
	A81	6,799,277	09/28/04	Colvin			
	A82	6,795,928	09/21/04	Bradley et al.			
	A83	6,792,549	09/14/04	Colvin			
	A84	6,792,548	09/14/04	Colvin			
	A85	6,785,825	08/31/04	Colvin			
	A86	6,502,195	12/31/02	Colvin			
	A87	6,484,264	11/19/02	Colvin			
	A88	6,460,142	10/01/02	Colvin			
	A89	6,446,211	09/03/02	Colvin			
	A90	6,044,471	03/28/00	Colvin			
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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A91	6,165,072	12/26/00	Davis, et al.			
	A92	6,577,733	06/10/03	Charrin			
	A93	6,368,219	04/09/02	Szrek, et al.			
	A94	6,364,769	04/02/02	Weiss, et al.			
	A95	5,800,268	09/01/98	Molnick			
	A96	5,879,234	03/09/99	Mengual			
	A97	5,954,583	09/21/99	Green			
	A98	6,203,427	03/20/01	Walker et al.			
	A99	4,072,930	02/07/78	Lucero et al.			
	A100	5,004,232	04/02/91	Wong et al.			
	A101	5,155,768	10/13/92	Matsuhara			
	A102	5,326,104	07/05/94	Pease et al.			
	A103	5,489,095	02/06/96	Goudard et al.			
	A104	5,507,489	04/16/96	Reibel et al.			
	A105	5,604,801	02/18/97	Dolan et al.			
	A106	6,264,557	07/24/01	Schneier et al.			
	A107	4,454,594	06/12/84	Heffron et al.			
	A108	4,430,728	02/07/84	Beitel et al.			
	A109	5,851,149	12/22/98	Xidos et al.			
	A110	6,446,257	09/03/02	Pradhan et al.			
	A111	6,099,408	08/08/00	Schneier et al.			
	A112	6,453,319	09/17/02	Mattis et al.			
	A113	6,449,687	09/10/02	Moriya			
	A114	3,931,504	01/06/76	Jacoby			
	A115	6,253,374	06/26/01	Dresevic et al.			
	A116	6,454,648	09/24/02	Kelly et al.			
	A117	5,761,647	06/02/98	Boushy			
	A118	2002/0116284	08/22/02	Steelman et al.			
	A119	2003/0224858	12/04/03	Yoseloff et al.			
	A120	2003/0069074	04/10/03	Jackson			
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	A121	6,331,146	12/18/01	Miyamoto et al.			
	A122	2002/0052230	5/2/02	Martinek et al.			
	A123	5,568,602	10/22/96	Callahan et al.			
	A124	6,290,602	9/18/01	Kawano			
	A125	2003/0078103	4/24/03	LeMay et al			
	A126	6,908,391	6/21/05	Gatto et al.			
	A127	4,250,563	2/10/81	Struger			
	A128	4,293,928	10/6/81	Baun			
	A129	4,500,933	2/19/85	Chan			
	A130	4,862,355	8/29/89	Newman et al.			
	A131	4,972,470	11/20/90	Farago			
	A132	5,264,958	11/23/93	Johnson			
	A133	5,400,246	3/21/95	Wilson et al.			
	A134	5,444,642	8/22/95	Montgomery et al.			
	A135	5,508,689	4/16/96	Rado et al.			
	A136	5,548,782	8/20/96	Michael et al.			
	A137	5,671,351	9/23/97	Wild et al.			
	A138	5,688,174	11/18/97	Kennedy			
	A139	5,702,303	12/30/97	Takemoto et al.			
	A140	5,848,250	12/8/98	Smith et al.			
	A141	5,935,224	8/10/99	Svancarek et al.			
	A142	5,984,786	11/16/99	Ehrman			
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	A150	6,222,448	4/24/01	Beck et al.			
Examiner			Date Considered				

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form 1449 (Modified)</b>			Atty Docket No. IGT1P078/P-671	Application No.: 10/040,239
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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A151	6,263,392	7/17/01	McCauley			
	A152	6,269,474	7/31/01	Price			
	A153	6,279,124	8/21/01	Brouwer et al.			
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	A155	6,324,605	11/27/01	Rafferty et al.			
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Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B1	WO 99/65579	12/23/99	PCT	A63F	5/04	X	
	B2	WO 00/33196	06/08/00	PCT	G06F	12/14	X	
	B3	2 121 569	12/21/83	United Kingdom	G06F	15/44	X	
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	B9	WO 94/19784	09/01/94	PCT	G09B	9/05	X	
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	B11	2 147 773	5/15/85	United Kingdom	A63F	9/22	X	
	B12	WO 96/14614	5/17/96	PCT	G06F	1/18		X
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Examiner				Date Considered				

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		Applicant: LEMAY et al.	
		Filing Date January 3, 2002	Group 3714

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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C1	Copy of Australian Office Action dated December 12, 2005, from related Australian Application No. 2001245518 (2 pages). [Atty. Dkt. No. IGT1P252AU]
	C2	Answer and Counterclaims to Second Amended Complaint filed in connection with Civil Action No. CV-S-0 1-1498, pages 1-26 and certificate of service page.
	C3	Defendants', Supplemental Response to Plaintiffs' First Set of Interrogatories filed in connection with Civil Action No. CV-S-01-1498, pages 1-3,50-68 and 85-86.
	C4	Davida, G. et al., "Defending Systems Against Viruses through Cryptographic Authentication," Proceedings of the Symposium on Security and Privacy, <u>IEEE Comp. Soc. Press</u> , pages 312-318 (May 1, 1989).
	C5	Document entitled: "Fact Sheet on Digital Signature Standard" dated May 1994, 6 pages
	C6	Federal Information Processing Standards (FIPS) Publication 180-1 entitled: "Secure Hash Standard" dated April 17, 1995, 2 title pages, abstract page and pages 1-21
	C7	Federal Information Processing Standards (FIPS) Publication 180 entitled: "Secure Hash Standard" dated May, 11, 1993, title page, abstract page and pages 1-20
	C8	Federal Information Processing Standards (FIPS) Publication 186 entitled: "Digital Signature Standard (DSS)" dated May 19, 1994, 17 pages
	C9	Hellman, Martin E., "The Mathematics of Public-Key Cryptography," <u>Scientific American</u> , Volume 241, No.8, August 1979, pp. 146-152 and 154-157.
	C10	Rivest, et al., "A Method for Obtaining Digital Signatures and Public-Key Cryptosystems," <u>Communications of the ACM</u> , Volume 21, No.2, February 1978, pp. 120-126.
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	C12	Complaint for patent infringement filed by Aristocrat Technologies, et al., dated January 22, 2002, Civil Action No. CV-S-02-0091.
	C13	Bakhtiari et al., Cryptographic Hash Functions: A Survey, 1995, Centre for Computer Security Research, pgs 1-26.
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	C16	Copy of European Office Action dated December 8, 2005 from a related EP Application No. 02768907.4 [Atty. Dkt. No. IGT1P078EP] 4 pages.
	C17	Game Programming Gems, Mark DeLoura, Charles River Media, ISBN: 1-58450-049-2, 2000 (12 pages).
	C18	DirectX Media: Multimedia Services for Microsoft Internet Explorer and Microsoft Windows, MSDN Library, <a href="http://msdn.microsoft.com">http://msdn.microsoft.com</a> , 10.1998 (10 pages).
	C19	Levinthal, Adam and Barnett, Michael, "The Silicon Gaming Odyssey Slot Machine," February 1997, <i>COMPCON '97 Proceedings, IEEE San Jose, CA; IEEE Comput. Soc.</i> , pp 296-301.
	C20	Bernardi, Fabrice et al., "Model Design Using Hierarchical Web-Based Libraries", June 10-14, 2002, Annual ACM IEEE Design Automation Conference, New Orleans, Louisiana, pp. 14-17.
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	C23	Mardsen, et al. "Development of a PC-Windows Based Universal Control System, 5 <sup>th</sup> Intl. Conf. On FACTORY 2000, 2-4 April, 1997, Conf. Pub. No. 435, pp. 284-287.
	C24	RTD USA, <a href="http://www.rtdusa.com">www.rtdusa.com</a> (1998), downloaded from the Internet on Mar. 20, 2003, pp. 1-49.
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